SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4762 · CLASS 1.4

1.4762

Chemical composition, mechanical and physical property values, and 24 standard designations from 12 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.9 g/cm³	24 in 12 regions	10 on file

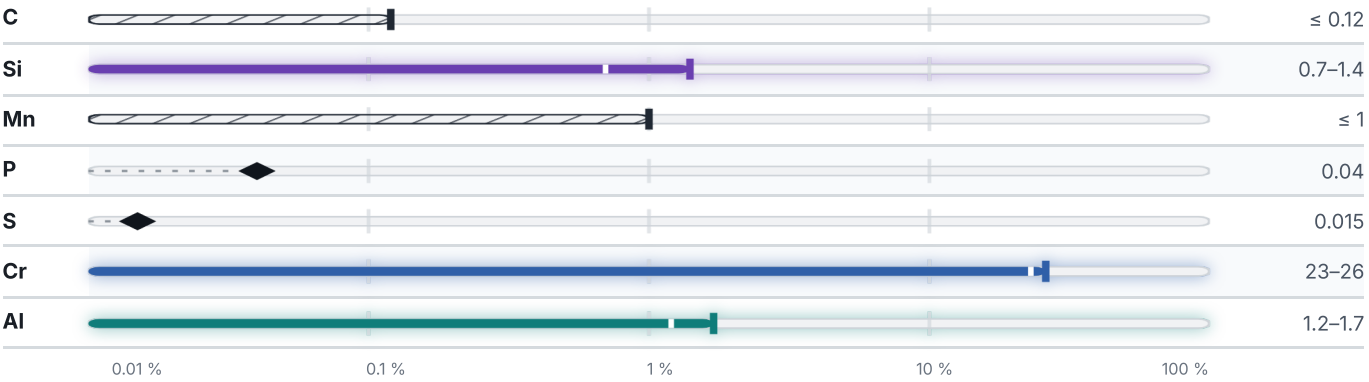
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 71.8 % · Cr — 24.5 % · Al — 1.5 % · Si — 1 % · Traces & impurities · 1.2 %

Logarithmic scale, 0.01 % to 100 % — every value here compares directly, decade by decade.



The scale is logarithmic, not the element's raw share of the alloy — the only honest way to fit 0.01 % and 100 % in one picture, and it means every value here can be compared with every other.

Predicted transformation temperatures

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Mo.

Mechanical properties

9 values across 4 conditions

SOFT ANNEALED	HB
Soft annealed	223

CONDITION · DIMENSION	RM N/mm²	A5 %
Pipe hot strain, GOST 9940-81	441	17

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	Z %
Bar, GOST 5949-75	440	295	20	45

CONDITION · DIMENSION	RM N/mm²	A5 %
Sheet thin, GOST 5582-75	530	17

Physical properties

3 values

CONDITION · DIMENSION	RHO g/cm³	E GPa	ALPHA 10^-6/K
20	7.6	200	–
100	–	–	10
500	–	–	11

PROPERTY	VALUE	UNIT
Density	7.9	g/cm³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	
Temper brittleness	predisposed	

Designations across standards

24 designations · 2 documented as identical

Europe 4

1.4762	din-en
X10CrA124	din-en
X10CrAl24 This grade's own name	din-en
X10CrAlSi25 This grade's own name	din-en

Russia / CIS 4

15КН28	gost
15Х28	gost
Х28	gost
ЭИ349	gost

United States 3

S44600	uns
446	aisi-sae
S44600	aisi-sae

Spain 3

F.3154	une
F.3154-X10CrAl24	une
X10CrAl24	une

France 2

Z10CAS24	afnor
Z12CAS25	afnor

Sweden	2
2320	ss
2322	ss

Japan	1
SUH446	jis

China	1
2Cr25N	gb

Italy	1
X16Cr26	uni

Czechia	1
17153	csn

Serbia	1
Č.4970	srps

Poland	1
H24JS	pn

Note on use. The data is compiled to the best of our knowledge from publicly available standards and manufacturer documentation. It replaces neither material testing nor an inspection document to EN 10204. Please request a mill certificate to EN 10204 2.1, 3.1 or 3.2 together with your enquiry. The standard in its current valid edition always prevails.

Enquiry about 1.4762

Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.4762	Aug 20, 2026